SHARP

MATERIAL SAFETY DATA SHEET

Date Issued : Dec.1.2008
MSDS No. F−01741

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : DX-B350P(Black Toner)

Supplier Identification : Sharp Corporation
22-22 Nagaike-cho, Abeno-ku, Osaka, Japan

Local suppliers are listed below. Please contact the nearest supplier for additional information.

Area	(Country)	(Name and Telephone Number)
North America	U.S.A.	Sharp Electronics Corporation Sharp Plaza, Mahwah, NJ Telephone number for information : 1-800-237-4277 Emergency telephone number : 1-800-255-3924
	Canada	Sharp Electronics of Canada Ltd. Telephone number for information : 905-890-2100 Emergency telephone number : 1-800-255-3924
Oceania	Australia	Sharp Corporation of Australia PTY. Ltd. No1 Huntingwood Drive Huntingwood Blacktown N.S.W. Telephone number for information : 1300-13-50-22
Europe	Germany	Sharp Electronics (Europe) GMBH Sonninstrasse 3, 20097 Hamburg Telephone number to access MSDS : 040-2376-2185 For more information : 040-2376-2613
	United Kingdom	Sharp Electronics (U. K.) Ltd. Telephone number for information : 08705-274-277
	France	Sharp Electronics France S.A. Telephone number for information : 01-49-90-34-00
	Austria	Sharp Electronics GMBH Telephone number for information : 01-727-19-0
	Italy	Sharp Electronics (Italy) S.P.A. Telephone number for information : 02895951
	Spain	Sharp Electronics (Espana) S.A. Telephone number for information : 93-581-97-00
	Netherlands	Sharp Electronics Benelux B.V. Telephone number for information : 30-6359500
	Sweden	Sharp Electronics Nordic AB Telephone number for information : 08-634-36-00
	Switzerland	Sharp Electronics(Schweiz)AG Telephone number for information : 01-846-6111
Middle East	U.A.E.	Sharp Middle East FZE P.O.Box 17115 Jebel Ali, Dubai Telephone number for information : 04-815311

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance[ ] **Preparation[X]**

Ingredient	CAS No.	Proportion	OSHA PEL	ACGIH TLV	MAK-TWA	NOHSC- TWA
Polyester resin	Confidential	40-50%	Not listed	Not listed	Not listed	Not listed
Magnetite	1317-61-9	40-50%	Not listed	Not listed	Not listed	Not listed
Ethylene/propylene copolymer	Confidential	1-5%	Not listed	Not listed	Not listed	Not listed
Stylene/acrylate and olefin resin	Confidential	1-5%	Not listed	Not listed	Not listed	Not listed
Amorphous silica	7631-86-9	1-5%	Not listed	10mg/m^3	4mg/m^3	Not listed

3. HAZARDS IDENTIFICATION

Most Important Hazards and Effects of the Products

Human Health Effects : There are no anticipated carcinogenic effects from exposure based on animal tests performed using toner. When used as intended according to instructions, studies do not indicate any symptoms of fibrosis will occur.

Environmental Effects : Not toxic to aquatic organisms

Specific hazards : Dust explosion (like most finely divided organic powders)

Directive 1999/45/EC(Europe) : Not classified as dangerous

4. FIRST-AID MEASURES

Route(s) of Entry :	Inhalation?	Skin?	Ingestion?
	Yes	No	Possible but very unusual.

Inhalation : Remove to fresh air. If symptoms occur, consult medical personnel.

Skin Contact : Wash with soap and water for 15 minutes or until particle is removed. If irritation does occur, consult medical personnel.

Eye Contact : flush eyes immediately with water for 15 minutes. If irritation does occur, consult medical personnel.

Ingestion : Rinse with water and drink several glasses of water . If irritation or discomfort does occur, consult medical personnel.

5. FIRE –FIGHTING MEASURES

Extinguishing Media : Water , CO_2, foam and dry chemicals

Special Fire fighting Procedures : None

Fire and Explosion Hazards : Toner material, like most finely divided organic powders, may form an explosive mixture.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions : None

Environmental Precautions : None

Methods for Cleaning Up : Wipe off with paper or cloth. Do not use vacuum cleaner when a large amount is released. It, like most finely divided organic powders, is capable of creating a dust explosion.

7. HANDLING AND STORAGE

Handling

Technical Measures : None

Precautions : None

Safe Handling Advice : Use of a dust mask is recommended when handling a large quantity of toner or during long term exposure, as with any non-toxic dust. Try not to disperse the particles.

Storage

Technical Measures : None

Storage Conditions : Keep container closed and Store in a cool and dry place. Keep out of the reach of children.

Incompatible Products : None

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures Ventilation **:** Not required under intended use.

Exposure limit values

OSHA-PEL(USA) **:** 15mg/m^3 (Total Dust) , 5mg/m^3 (Respirable Dust)

ACGIH-TLV(USA) **:** 10mg/m^3 (Total Dust) , 3mg/m^3 (Respirable Dust)

Personal Protective Equipment

Respiratory Protection : None required when used as intended in Sharp equipment.

Hand Protection : None required when used as intended in Sharp equipment.

Eye Protection : None required when used as intended in Sharp equipment.

Skin Protection : None required when used as intended in Sharp equipment.

Other Protective Equipment : Use of a dust mask and goggles are recommended when handling a large quantity of toner or during long term exposure, as with any non-toxic dust.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Physical State **:** Solid Form**:** Powder Color**:** Black Odor**:** Faint Odor

Ph **:** Not applicable

Boiling/Melting Point **:** Not applicable

Softening Point(°C) **:** Not available

Flash Point(°C) **:** Not applicable

Ignition Point(°C) **:** No data

Explosion Properties **:** No data

Density(g/cm³) **:** Approx. 1.7

Solubility in water **:** Negligible

10. STABILITY AND REACTIVITY

Stability **:** Stable

Hazardous Reactions **:** Dust explosion, like most finely divided organic powders.

Conditions to Avoid **:** Electric discharge, throwing into fire.

Materials to Avoid **:** Oxidizing Materials

Hazardous Decomposition Products **:** CO, CO_2 and NO_X

Further Information **:** None

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Ingestion(oral) **:** LD_{50}>5000mg/kg [Estimated from the other product containing similar material]

Dermal **:** LD_{50}>5000mg/kg [Estimated from the other product containing similar material]

Inhalation **:** No data [This material is now being tested on “Acute inhalation toxicity”.]

Eye irritation **:** Not an irritant [Estimated from the other product containing similar material]

Skin irritation **:** Not an irritant [Estimated from the other product containing similar material]

Skin sensitizer **:** Not sensitized [Estimated from the other product containing similar material]

Mutagenicity **:** Negative(Ames Test)

Chronic Effect **:** In a study in rats of chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the high concentration (16mg/m^3) exposure group, and a minimal to mild degree of fibrosis was noted in22% of the animals in the middle (4mg/m^3) exposure group, but no pulmonary change was reported in the lowest (1mg/m^3) exposure group, the most relevant level to potential human exposures.

12. ECOLOGICAL INFORMATION

Ecotoxicity

On available data, toner is not harmful to aquatic organisms
[Estimated from the other product containing similar material]

13. DISPOSAL CONSIDERATIONS

Waste from residues : Waste material may be dumped or incinerated under conditions which meet all federal, state and local environmental regulations.

Contaminated Packaging: Waste may be disposed or incinerated under conditions which meet all federal, state and local environmental regulations.

14. TRANSPORT INFORMATION

UN Classification : None
Not classified as hazardous for transport.

15. REGULATORY INFORMATION

US Information
TSCA(Toxic Substances Control Act) :
All chemical substances in this product comply with all applicable rules or order under TSCA.
SARA(Superfund Amendments and Reauthorization Act) Title III
302 Extreme Hazardous Substance : None
311/312 Hazard Classification : None
EU Information
1999/45/EC and 67/548/EEC
Symbol & Indication : Not required
R-Phrase : Not required
76/769/EEC : All chemical substances in this product comply with all applicable rules or order under 76/769/EEC.

16. OTHER INFORMATION

NFPA Rating（USA） : Health=0 Flammability=1 Reactivity=0
WHMIS Legislation (Canada) : This product is not a controlled product.
References
National Toxicology Program(NTP) Report on Carcinogens (NTP)
TLVs and BEIs (American Conference of Governmental Industrial Hygienists)
Journal of Occupational Health(Japan Society for Occupational Health)

The information on this data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. However, all materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we do not guarantee that these are the only hazards which exist.